

Appl. No. 10 520 842

Amdt. dated June 13, 2006

Reply to Office action mailed December 13, 2005

**AMENDMENTS TO THE CLAIMS:**

Claims 1 to 7 are pending and under consideration. This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS SHOWING AMENDMENTS TO THE CLAIMS:**

Claim 1 (Currently amended). A flame retardant thermoplastic resin composition comprising:

(A) 45 to 95 parts by weight of a polycarbonate resin;

(B) 1 to 50 parts by weight of a rubber modified vinyl-grafted copolymer prepared by graft-polymerizing (b<sub>1</sub>) 5 to 95 % by weight of a monomer mixture comprising of 50 to 95% by weight of at least one of styrene,  $\alpha$ -methylstyrene, halogen- or alkyl-substituted styrene, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, or a mixture thereof and 5 to 50 % by weight of acrylonitrile, methacrylonitrile, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, maleic acid anhydride, or C<sub>1-4</sub> alkyl- or phenyl N-substituted maleimide onto (b<sub>2</sub>) 5 to 95 % by weight of a rubber polymer selected from the group consisting of butadiene rubber, acryl rubber, ethylene-propylene rubber, styrene-butadiene rubber, acrylonitrile-butadiene rubber, isoprene rubber, copolymer of ethylene-propylene-diene (EPDM), polyorganosiloxane-polyalkyl (meta)acrylate rubber complex and a mixture thereof;

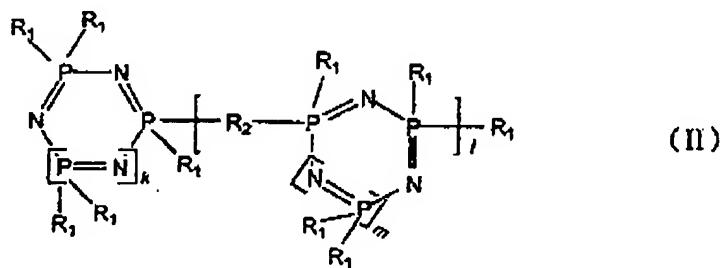
(C) 0 to 50 parts by weight of a vinyl copolymer prepared from (c<sub>1</sub>) 40 to 95 % by weight of at least one of styrene,  $\alpha$ -methyl styrene, halogen or alkyl substituted styrene, C<sub>1-8</sub> methacrylic acid alkyl ester, or C<sub>1-8</sub> acrylic acid alkyl ester and (c<sub>2</sub>) 5 to 60 % by weight of at least one of acrylonitrile, methacrylonitrile, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, maleic acid anhydride, or C<sub>1-4</sub> alkyl or phenyl N-substituted maleimide;

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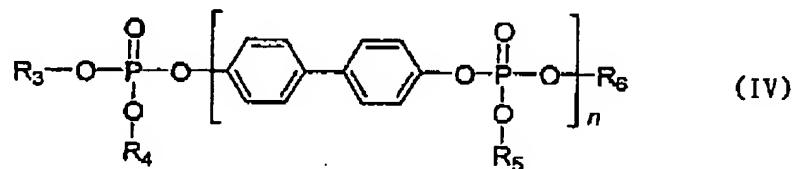
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(D) 1 ~ 30 parts by weight of a mixture of organic phosphorous compounds comprising (d<sub>1</sub>) 1 ~ 50 % by weight of a cyclic oligomeric phosphazene compound represented by the following Formula (II) and (d<sub>2</sub>) 99 ~ 50 % by weight of an oligomeric phosphoric acid ester compound represented by the following Formula (IV), per 100 parts by weight of the sum of (A), (B) and (C); and



wherein R<sub>1</sub> is alkyl, aryl, alkyl substituted aryl, aralkyl, alkoxy, aryloxy, amino, or hydroxyl or alkoxy substituted with alkyl, aryl, amino, or hydroxy group or aryloxy substituted with alkyl, aryl, amino, or hydroxy group; k and m are an integer from 0 to 10; R<sub>2</sub> is C<sub>6-30</sub> dioxyaryl or alkyl substituted C<sub>6-30</sub> dioxyaryl derivative; and l is a degree of polymerization and the average value of l is from 0.3 to 3;



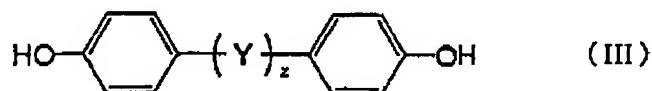
wherein R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are independently a C<sub>6-20</sub> aryl group or an alkyl-substituted C<sub>6-20</sub> aryl group, respectively, and n is an integer from 1 to 5 representing the number of repeating units and the average value of n in the oligomeric phosphoric acid ester is 1 to 3.

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(E) 0.05 to 5.0 parts by weight of a fluorinated polyolefin resin per 100 parts by weight of (A)+(B)+(C).

Claim 2 (Previously presented). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said cyclic oligomeric phosphazene compound has a linear structure.

Claim 3 (Original). The flame retardant thermoplastic resin composition as defined in claim 1, wherein R<sub>1</sub> is phenoxy and R<sub>2</sub> is a derivative from catechol, resorcinol, hydroquinone, or the bisphenylenediol represented by the following Formula (III):



wherein Y is alkylene of C<sub>1-5</sub>, alkylidene of C<sub>1-5</sub>, cycloalkylidene of C<sub>5-6</sub>, S or SO<sub>2</sub>, and z is 0 or 1.

Claim 4 (Currently amended). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are respectively a phenyl, or naphthyl group phenyl or naphthyl groups.

Claim 5 (Previously presented). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said cyclic oligomeric phosphazene compound has a structure with a branched chain at the main chain.

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Claim 6 (Previously presented). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are a respectively alkyl-substituted phenyl in which alkyl is methyl, ethyl, isopropyl, or t-butyl.

Claim 7 (Previously presented). The flame retardant thermoplastic resin composition as defined in claim 1, wherein said fluorinated polyolefin resin has an average particle size of 0.05 to 1,000 µm and a density of 1.2 to 2.3 g/cm<sup>3</sup>.